—Standard Valves—

4052-A VALVE

PENTODE.

SPECIFICATION.

Cathode.

Thoriated tungsten filament. Constant voltage type.

Base.

American medium 5-pin.

Anode connected to top cap.

Dimensions.

 Max. overall length
 9" (22-9 cms.)

 Bulb diameter
 2" (5-25 cms.)

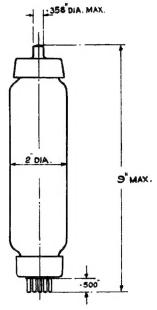
 Net weight
 0-48 lbs. (220 gms.)

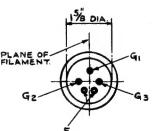
Constants.

Filament voltage

Nominal filament current 3 amps.
*Impedance 500,000 ohms
*Amplification factor 1,500
Control grid—anode capacity 0.012 $\mu\mu$ F.
Input capacity II $\mu\mu$ F.
Output capacity 10 $\mu\mu$ F.

* at Vp = 1,250 volts $Vg_1 = -13$ volts, $Vg_2 = 300$ volts $Vg_3 = 0$





LIMITING CONDITIONS FOR SAFE OPERATION.

7.5 volts

Maximum direct anode voltage1,500 voltsMaximum direct screen voltage300 voltsMaximum direct suppressor voltage45 voltsMaximum anode dissipation60 wattsMaximum screen dissipation20 wattsMaximum direct control grid current10 mA.Maximum RF control grid current5 amps.

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TYPICAL OPERATING CONDITIONS.

Class B Telephony		
Direct anode voltage Direct screen voltage Direct control grid voltage Direct suppressor voltage Peak R.F. input Anode current Screen current Screen resistor Driving power Peak output	1,250 volts 300 volts —30 volts 0 volts 70 volts 43 mA. 15 mA. 60,000 ohms 0.5 watts	
Carrier output	16 watts	

RADIO FREQUENCY OPERATION.

Class C Telephony — Cor		
Direct anode voltage	1,250 volts	
Direct screen voltage	300 volts	
Direct control grid voltage	—140 volts	
Direct suppressor voltage	0 volts	
Anode current	42 mA.	
Screen current	10 mA.	
Screen resistor	95,000 ohms	
Control grid current	I⋅8 mA.	
Peak RF input voltage (Vg I)	160 volts	
Peak AF input volts (Vg I)	60 volts	
AF power	0.75 watts	
Peak RF input power	2 watts	
Peak output	72 watts	
Carrier output	18 watts	

Class C Telegraphy — Unmodulated		
Direct anode voltage Direct screen voltage	1,250 volts 300 volts	
Direct screen voltage Direct control grid voltage	—100 volts	
Direct suppressor voltage	0 volts	
Anode current Screen current	80 mA. 37 mA.	
Screen resistor	26,000 ohms	
Control grid current	5 mA.	
Peak RF input volts RF input power	175 volts 0.9 watts	
Output	64 watts	

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Class C Telephony, Suppressor and Screen Modulated		
	Suppressor	Screen
Direct anode voltage	1,250	1,250 volts
Direct screen voltage	300	300 volts
Direct control grid voltage	-100	—100 volts
Direct suppressor voltage	-4 5	—40 volts
Peak AF suppressor voltage	75	75 volts
Peak AF screen voltage	175	150 volts 175 volts
Peak RF input Anode current	43	47 mA.
Screen current	36	36 mA.
Screen Resistor	25,000	25,000 ohms
Control grid current	25,000	5 mA.
RF input power	0.9	0.9 watts
AF power	0.3	0.8 watts
Peak output	72	84 watts
Carrier output	18	21 watts

